

# Stuart Cansdale

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*Research Associate with 3 years of experience in immunology, 2 years industry experience in and 1 year of experience as a technician at Stanford University. Proficient in a variety of cellular assays, with a strong focus in multi-color flow cytometry. Skilled in dry lab analysis using FlowJo with experience visualizing and interpreting data using Spotfire.*

## EDUCATION

**B.S., Bioengineering**, Santa Clara University, Santa Clara, CA

Sep 2016 – Jun 2020

## PROFESSIONAL EXPERIENCE

### Gamelandia

**Palo Alto, CA**

*Retail Associate / part-time*

May 2024 – Present

- Hosting events, managing inventory, and helping customers
- Winner of the National “Hobby Shop of the Year 2024” awarded by TCGPlayer and “Best of Peninsula 2024: Best Place to Take Your Kid” Reader’s Choice awarded by Mercury News

### Allogene Therapeutics

**South San Francisco, CA**

*Associate Scientist / FTE*

Jan 2022 – Apr 2023

- Generated allogeneic CAR-T process run data for the analytical and process development teams using multi-color flow cytometry panels for the FACS Verse, Lyric and BD Fortessa
- Presented critical flow cytometry data using Spotfire, FlowJo, and FACSDiva
- Assessed quality of donor starting material by designing a 32 color panel for the Cytex Aurora
- Assisted other product development teams with cell culture, ELISAs, library prep, NGS, and PCR experiments

### Stanford University SNP Center for Allergy & Asthma Research

**Palo Alto, CA**

*Life Science Technician II / FTE*

Mar 2021 – Dec 2021

- Analyzed basophil activation in allergy trial patients using the BD FACS Canto II and Flowjo
- Performed analysis using several assays including ELISA, Luminex, PCR, blood smears, ficoll, EpiTOF, and FACS

### Gritstone Bio

**Pleasanton, CA**

*Manufacturing Associate II / 6 month contract*

Oct 2020 – Mar 2021

- Managed GMP cell lines to manufacture virus for cancer treatments and COVID
- Performed bioreactor scale-up from thawing plasmid to 50 liter single-use bioreactors

### Santa Clara University Department of Bioengineering

**Santa Clara, CA**

*Research Assistant / part-time*

Dec 2016 – Jun 2020

- Co-author of senior thesis project combining a brain-computer interface using live EEG data with Python and MATLAB to recognize brain states for dynamic prosthetic control

## SKILLS

- multi-color flow & mass cytometry: Flowjo, FACSDiva, FACSVerse, FACSLyric, Cytex Aurora, BD Fortessa, FACS Canto II, Helios
- cell culture: mammalian cell lines, adherent, suspension, closed-system, GMP, bioreactor, scale-up, wave reactors
- Benchling, ELN, LIMS, GDP
- wet lab: ELISA, MiSeq, ficoll, Western Blot, fluorescence microscopy, PCR, NGS, HPLC, blood smears, EpiTOF, Luminex

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## **PUBLICATIONS**

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- Y.S. Jung, J. Aguilera, A. Kaushik, J.W. Ha, **S. Cansdale**, *et al.*, K. Nadeau. “Impact of air pollution exposure on cytokines and histone modification profiles at single-cell levels during pregnancy.” *Science Advances*, vol. 10, no. 48, 2024.
- J.W. Ha, J. Aguilera, Y.S. Jung, **S. Cansdale**, *et al.*, M. Prunicki. “The impacts of ambient air pollution exposure during pregnancy on maternal and neonatal health: Associations of PM2.5 exposure with immune biomarker levels.” *The Journal of Allergy and Clinical Immunology*, vol. 151, no. 2, 2023.
- J.W. Ha, N. Castano, **S. Cansdale**, *et al.*, S. Galli. “Development of Basophil Activation Test (BAT)-based point-of-care diagnostic tool for allergies.” *The Journal of Allergy and Clinical Immunology*, vol. 149, no. 2, 2022.
- B. Baculi, **S. Cansdale**, Y. Yan. “Brainwave Classification for EEG-based Neurofeedback.” *Bioengineering Senior Theses*, 2020.